

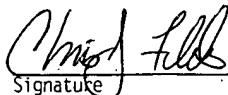
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		<b>ATTORNEY'S DOCKET NUMBER</b> <b>10008.007</b>
		<b>U.S. APPLICATION NO. (If known, see 37 CFR 1.5)</b> <b>104538694</b>
INTERNATIONAL APPLICATION NO. <b>PCT/BR2003/000169</b>	INTERNATIONAL FILING DATE <b>19 November 2003</b>	PRIORITY DATE CLAIMED <b>20 December 2002</b>
<b>TITLE OF INVENTION</b> HYDROGEN DIFFUSION BARRIER ON STEEL BY MEANS OF A PULSED-PLASMA ION-NITRIDING PROCESS		
<b>APPLICANT(S) FOR DO/EO/US</b> Paulo Emilio Valadao Miranda, Jorge Nestor Feugeas and Bianca Prizm Trotta		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ul> </p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ul> </p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ul> </p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input checked="" type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
Items 11 to 20 below concern document(s) or information included:		
<p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input type="checkbox"/> Other items or information:</p>		

I hereby certify that this application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313.

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. USPTO to process) an application. Confidentiality is governed by 35 U.S.C. including gathering information, preparing, and submitting the completed for of time you require to complete this form and/or suggestions for reducing the Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DC Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Express Mail Number - ED872666529US

June 10, 2005  
DateChris J. Fildes  
Name

  
Signature

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5)	INTERNATIONAL APPLICATION NO. PCT/BR2003/000169	ATTORNEY'S DOCKET NUMBER 200510008.007
<b>10538694</b>		

## 21. The following fees are submitted:

<input checked="" type="checkbox"/> a) Basic national fee.....	\$300.00
<input checked="" type="checkbox"/> b) Examination fee.....	\$200.00
<input checked="" type="checkbox"/> c) Search fee.....	\$500.00

**TOTAL OF ABOVE CALCULATIONS = \$1000.00**

Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.

Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE
- 100 =	/50 =		x \$250.00

Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	6 - 20 =		x \$50.00
Independent claims	1 - 3 =		x \$200.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00
<b>TOTAL OF ABOVE CALCULATIONS = \$1000.00</b>			

Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by  $\frac{1}{2}$ .  
**Adjustment date: 09/29/2005 WALVARAD**  
**06/17/2005 MMW**  
**02 PC1632 TOTAL = -500.00 UP**

Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).

<b>TOTAL NATIONAL FEE = \$1000.00</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property	
<b>TOTAL FEES ENCLOSED = \$1040.00</b>	
<b>Refund Ref: 09/29/2005</b>	Amount to be refunded:
	Amount charged:

- a.  A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed. **Credit Card Refund Total: \$100.00**
- b.  Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed. **VISA....: XXXXXXXXXXXX8609**
- c.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. \_\_\_\_\_. A duplicate copy of this sheet is enclosed.
- d.  Fees are to be charged to a credit card. **WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Fildes & Outland, P.C.  
20916 Mack Avenue, Suite 2  
Grosse Pointe Woods, MI 48236

SIGNATURE

Christopher J. Fildes  
NAME

32,132  
REGISTRATION NUMBER